

FIG. 1

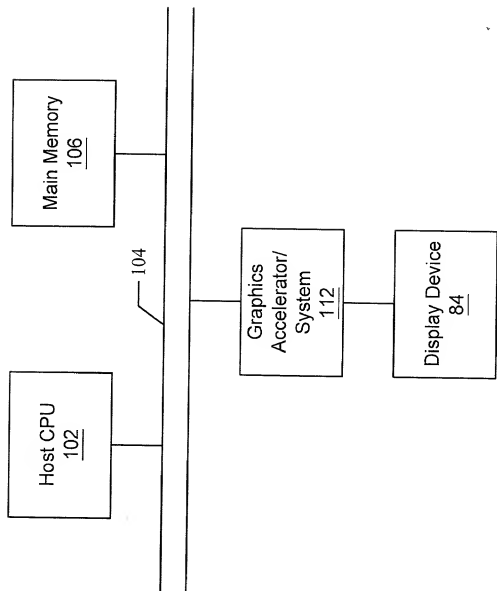


FIG. 2

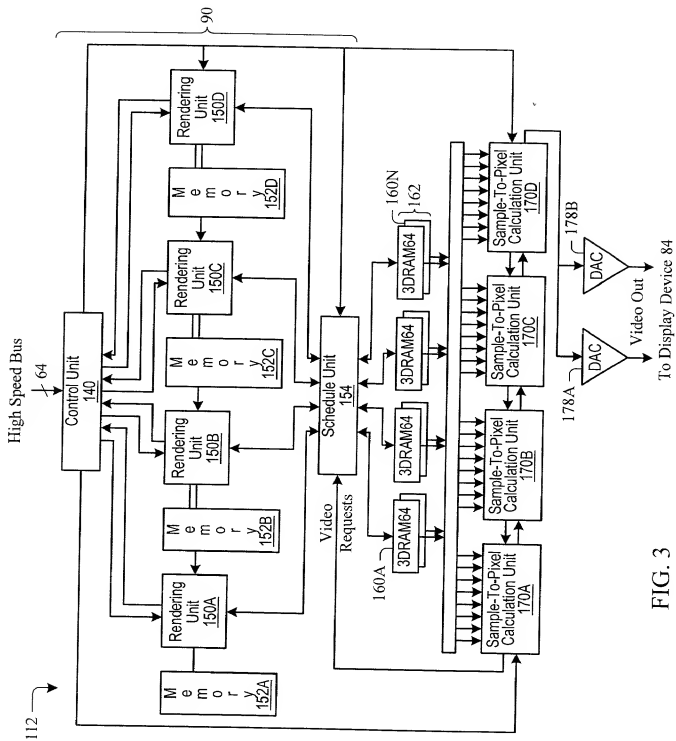


FIG. 3

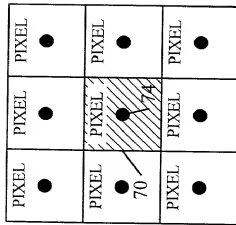


FIG. 4

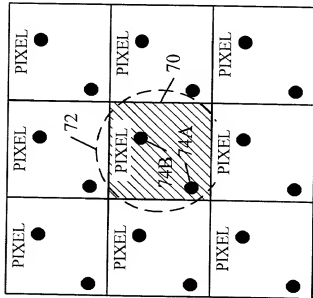


FIG. 5A

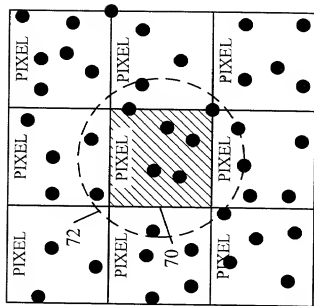


FIG. 5B

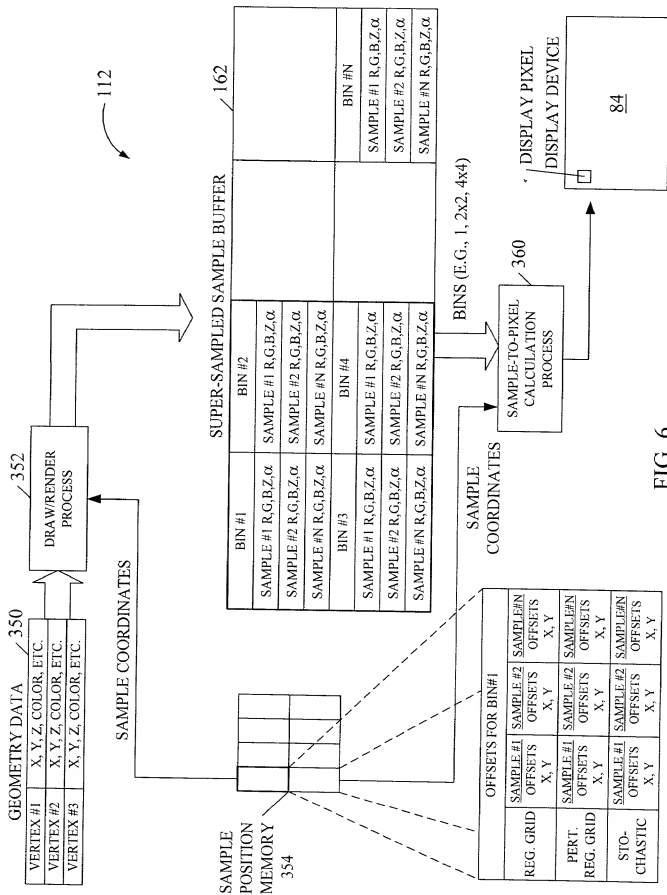


FIG. 6

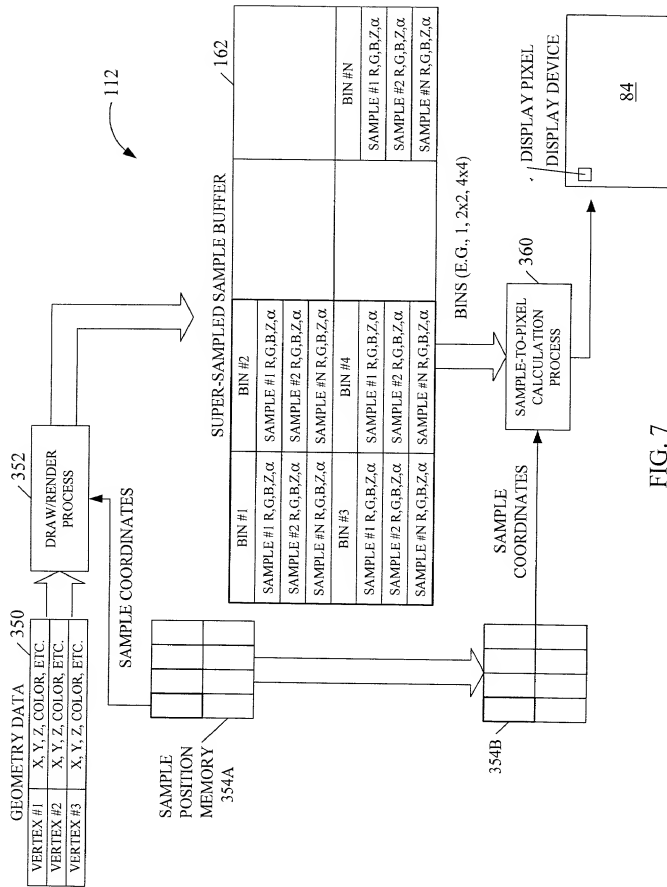
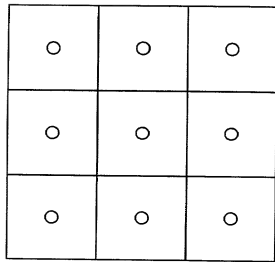
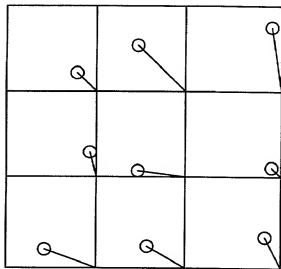


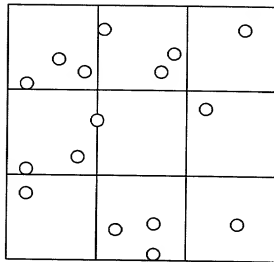
FIG. 7



REGULAR GRID 190



PERTURBED
REGULAR GRID 192



194 STOCHASTIC
SPACING

FIG. 8

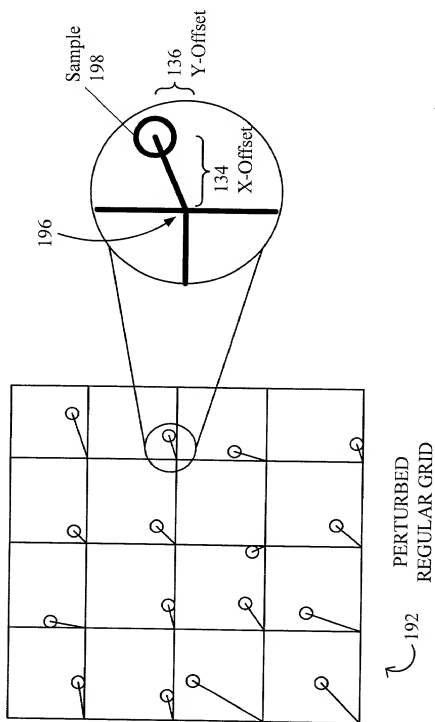


FIG. 9

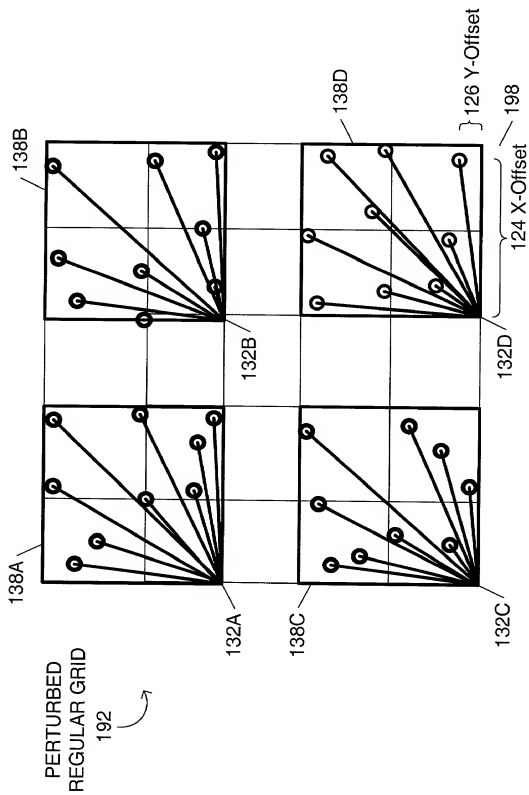


FIG. 10

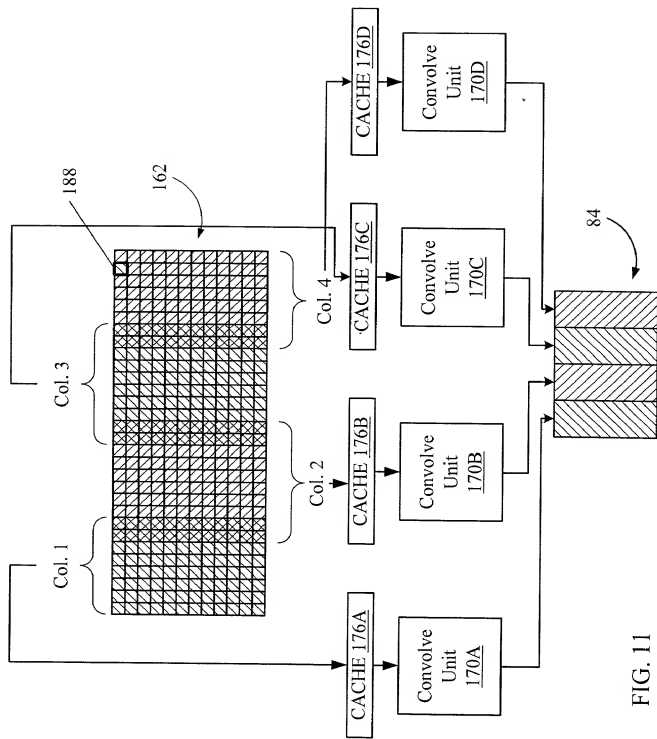


FIG. 11

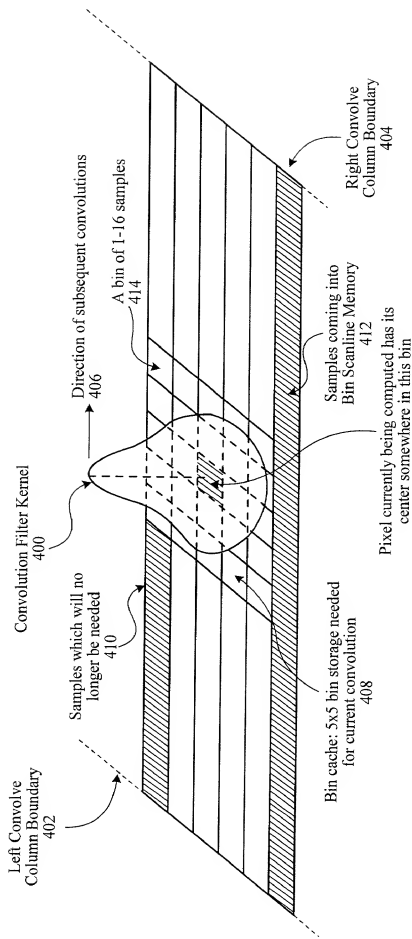


FIG. 11A

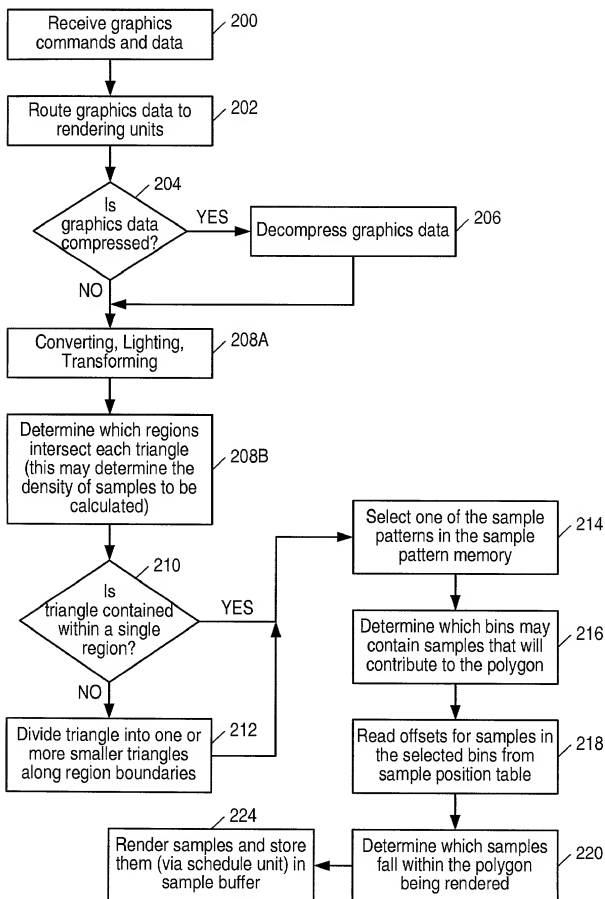


FIG. 12

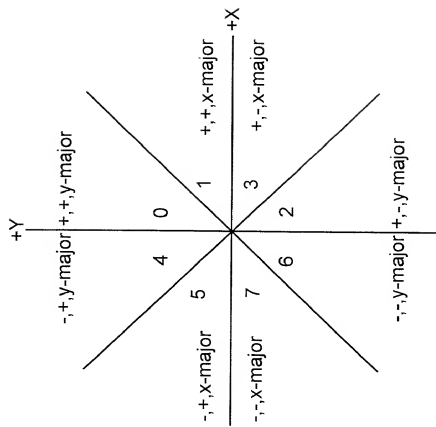


FIG. 12A

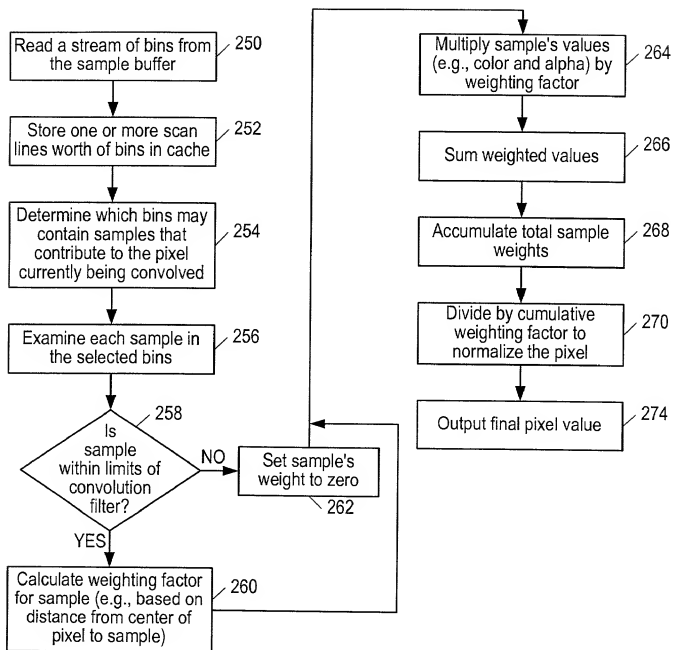
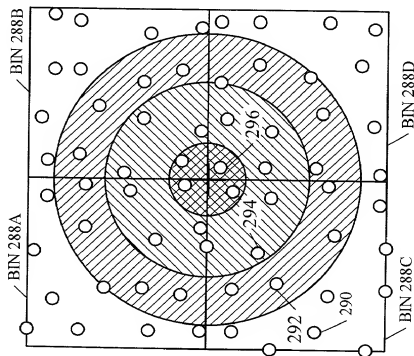
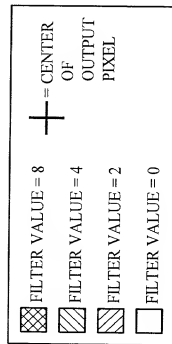


FIG. 13



300

Sample 190

R = 120 FILTER VALUE = 0
G = 200 VALUE = 0
B = 40
A = 150

310

UNNORMALIZED
OUTPUT PIXEL

R = 120*0
+140*2
+150*4
+140*8 = 2000

G = 200*0
+180*2
+170*4
+170*8 = 2400

B = 40*0
+50*2
+50*4
+60*8 = 780

A = 150*0
+160*2
+180*4
+190*8 = 2560

302

Sample 192

R = 140 FILTER VALUE = 2
G = 180 VALUE = 2
B = 50
A = 160

312

NORMALIZED
OUTPUT PIXEL

R = 2000 / 14 = 142.9
G = 2400 / 14 = 171.4
B = 780 / 14 = 55.7
A = 2560 / 14 = 175.7

306

Sample 196

R = 140 FILTER VALUE = 8
G = 170 VALUE = 8
B = 60
A = 190

312

NORMALIZATION
VALUE = 0+2+4+8 = 14

FIG. 14

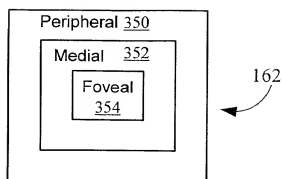


FIG. 15

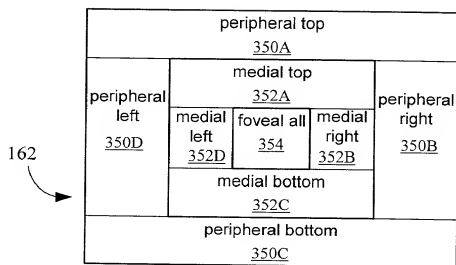


FIG. 16

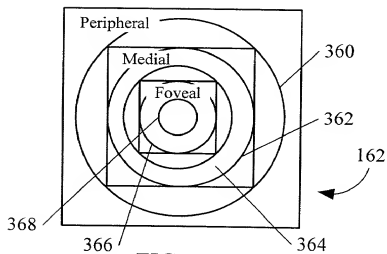
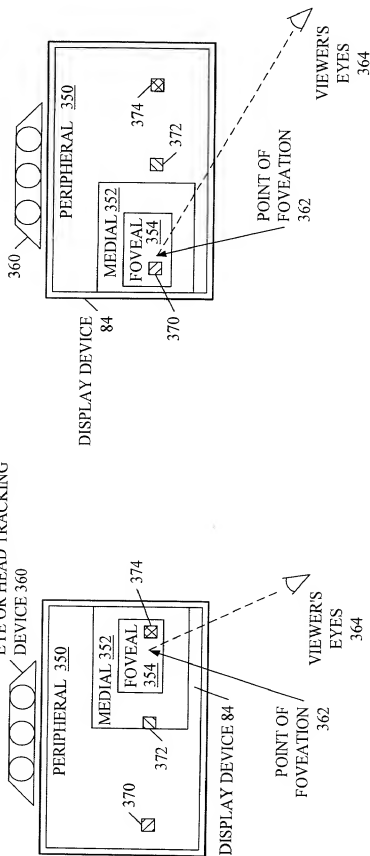


FIG. 17

EYE OR HEAD TRACKING



- ☑ FOVEAL REGION = 8 SAMPLES PER BIN
CONVOLUTION RADIUS TOUCHES 4 BINS
TOTAL = 32 SAMPLES MAY CONTRIBUTE
- ☑ MEDIAL REGION = 4 SAMPLES PER BIN
CONVOLUTION RADIUS TOUCHES 4 BINS
TOTAL = 16 SAMPLES MAY CONTRIBUTE
- ☑ PERIPHERAL REGION = 1 SAMPLE PER BIN
CONVOLUTION RADIUS TOUCHES 1 BIN
TOTAL = 1 SAMPLE MAY CONTRIBUTE

FIG. 18A

- ☑ PERIPHERAL REGION = 1 SAMPLE PER BIN
CONVOLUTION RADIUS TOUCHES 1 BIN
TOTAL = 1 SAMPLE MAY CONTRIBUTE
- ☑ PERIPHERAL REGION = 1 SAMPLE PER BIN
CONVOLUTION RADIUS TOUCHES 1 BINS
TOTAL = 1 SAMPLE MAY CONTRIBUTE
- ☑ FOVEAL REGION = 8 SAMPLES PER BIN
CONVOLUTION RADIUS TOUCHES 4 BIN
TOTAL = 32 SAMPLE MAY CONTRIBUTE

FIG. 18B

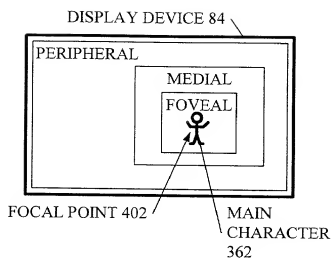


FIG. 19A

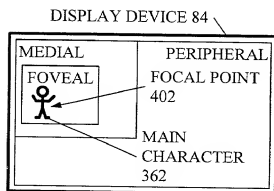


FIG. 19B

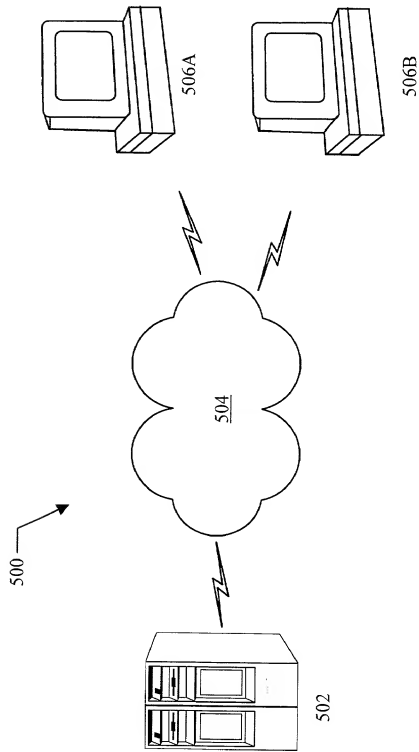


FIG. 20

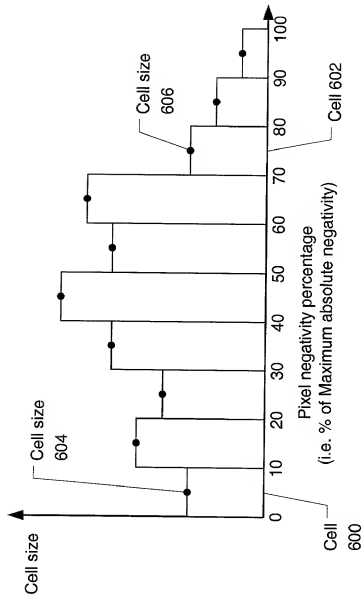
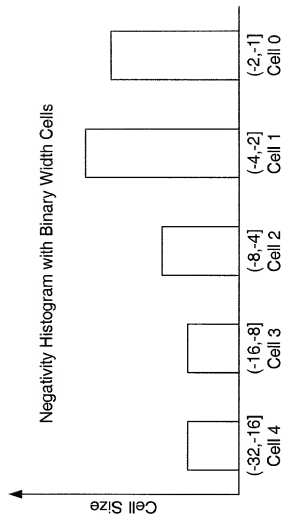


Figure 21



Each Cell defined by a ranges of pixel negativity values of the form (A,B]

Fig. 22

Fig. 23A Truncated Sinc Filter

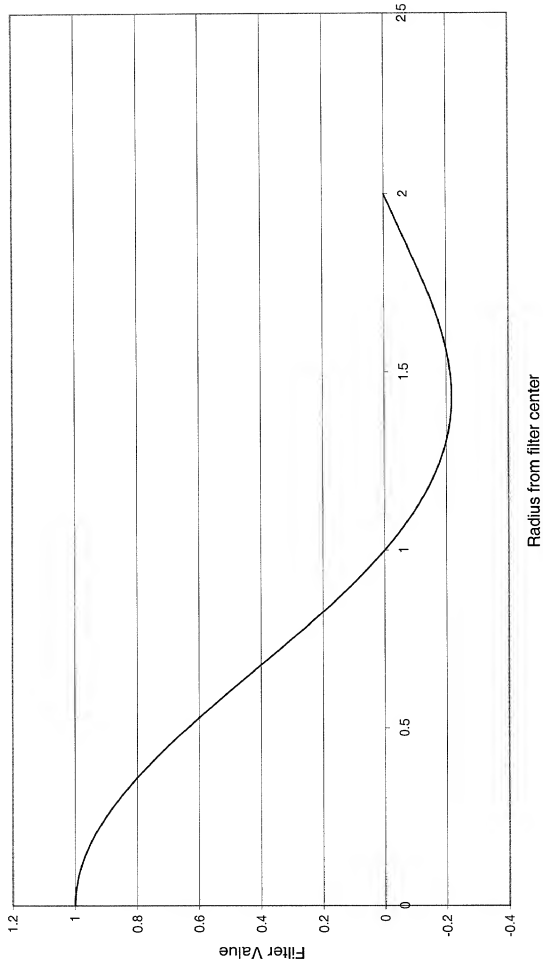


Fig. 23B Catmull-Rom Filter

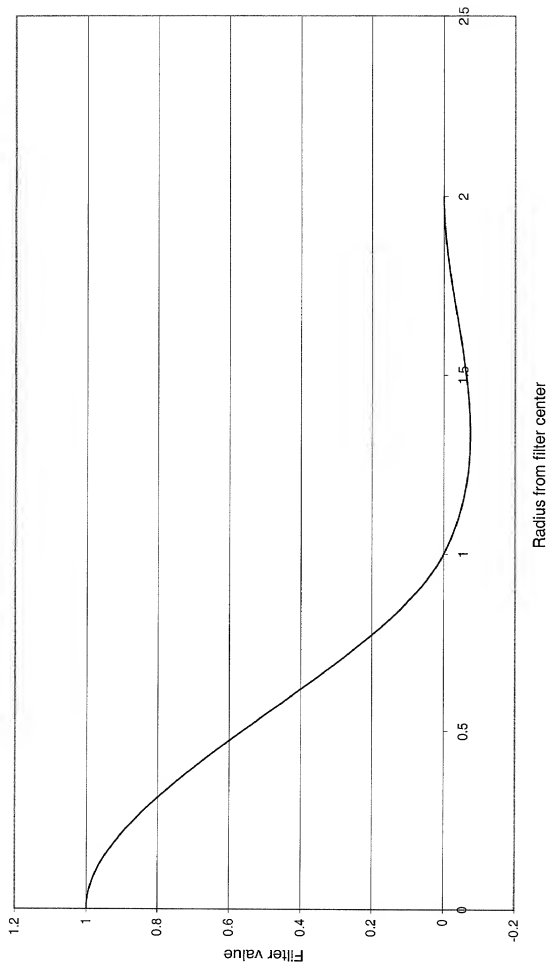
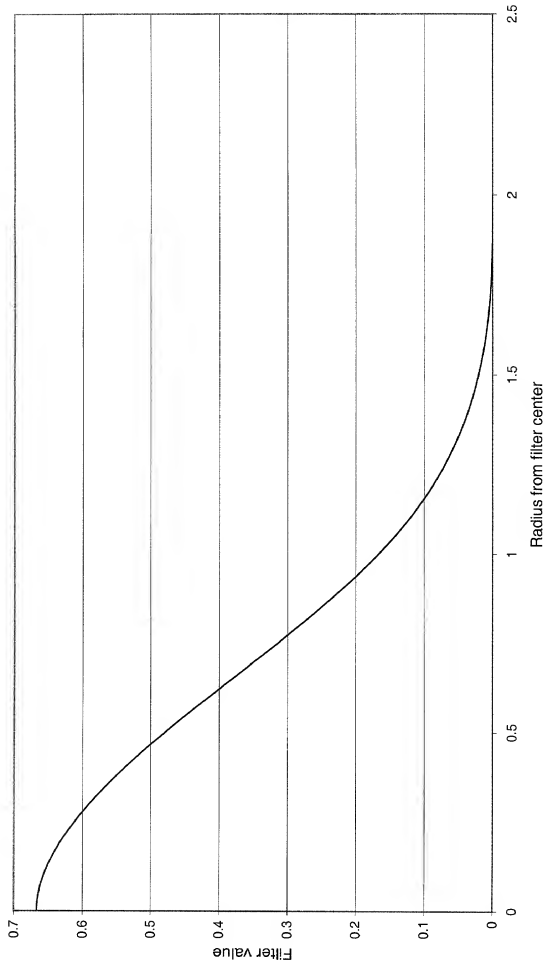


Fig. 23C Cubic B-Spline



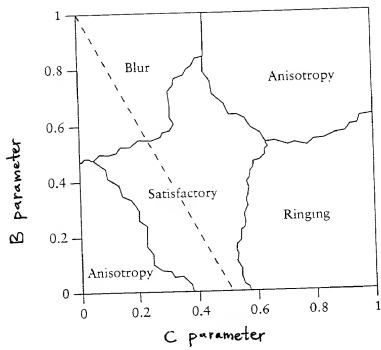


Fig. 23D

Fig. 23E Cardinal cubic spline,
i.e. Mitchell-Netravali filter (0, 1)

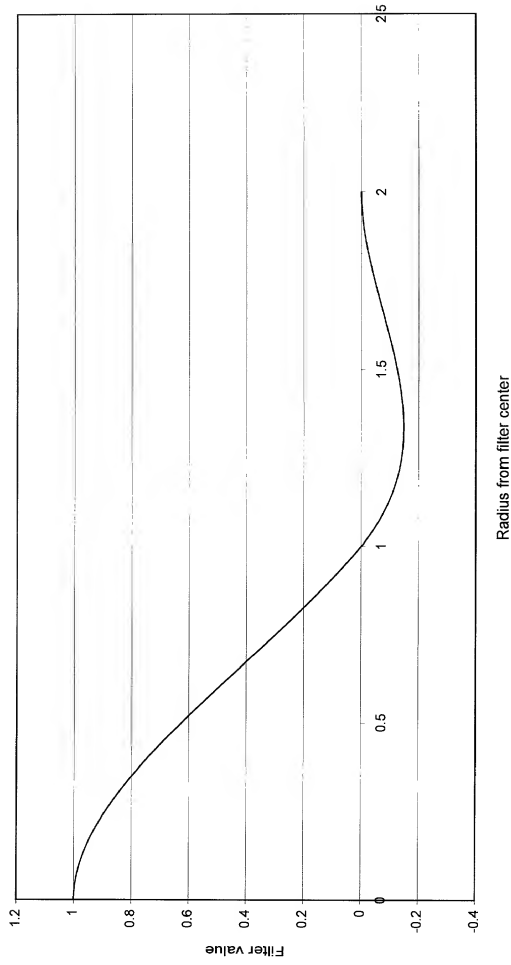
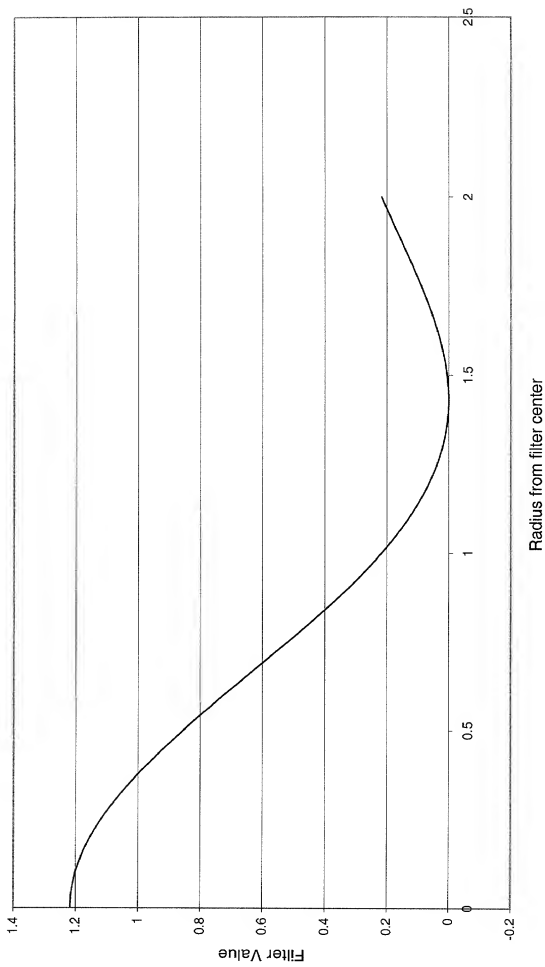


Fig. 24 Upward Shifted and Truncated Sinc Filter



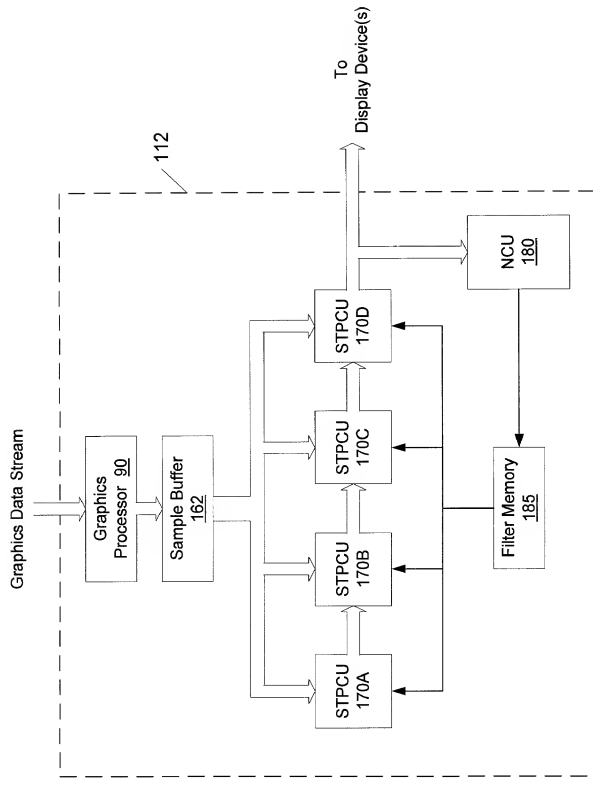


Fig. 25

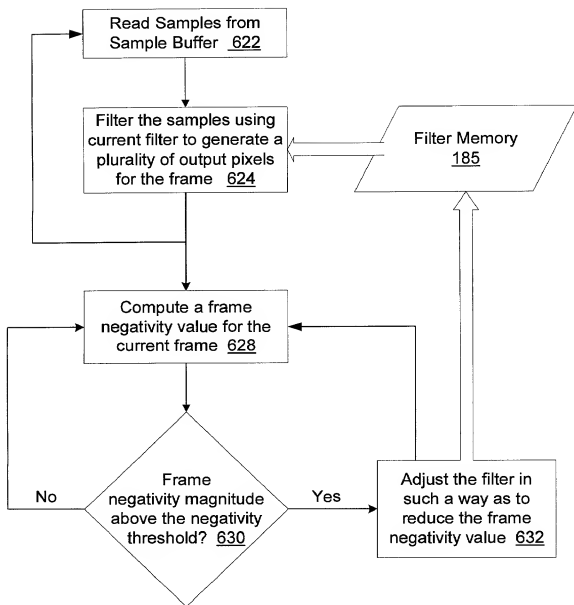


Fig. 26

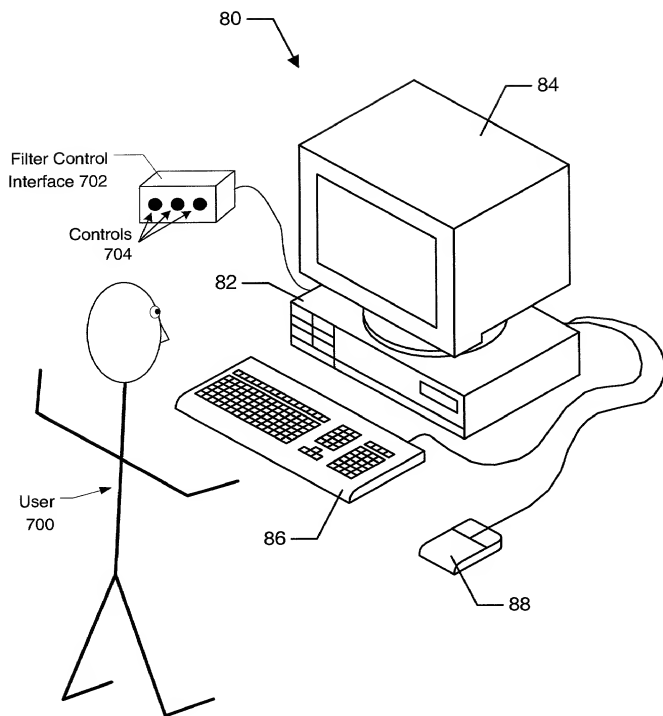


Fig. 27

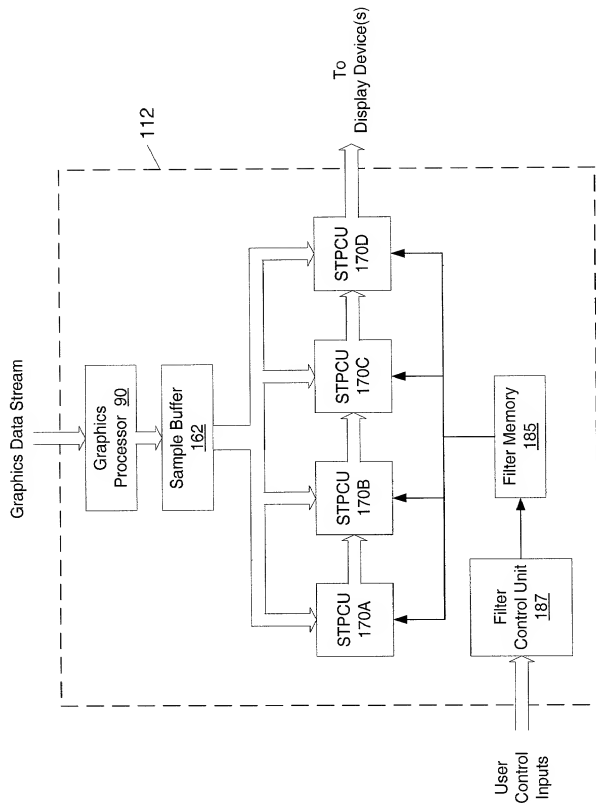


Fig. 28

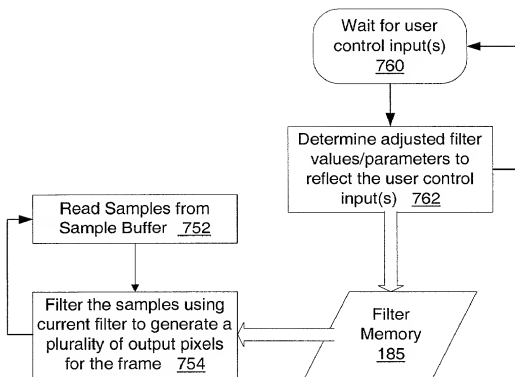


Fig. 29

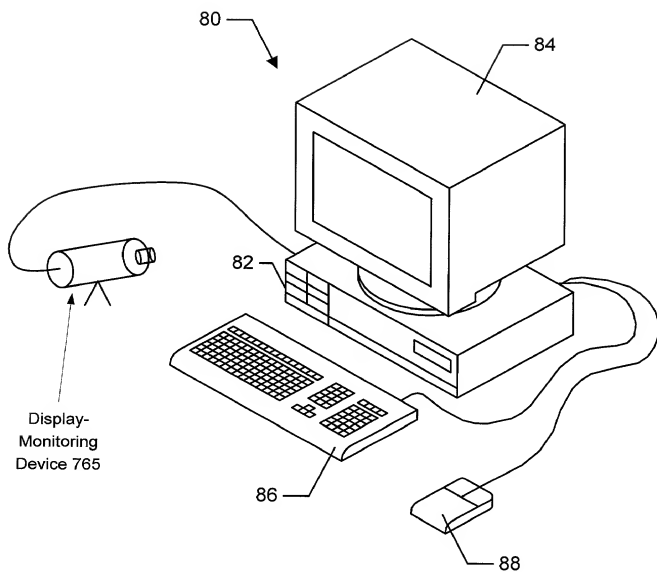


Figure 30

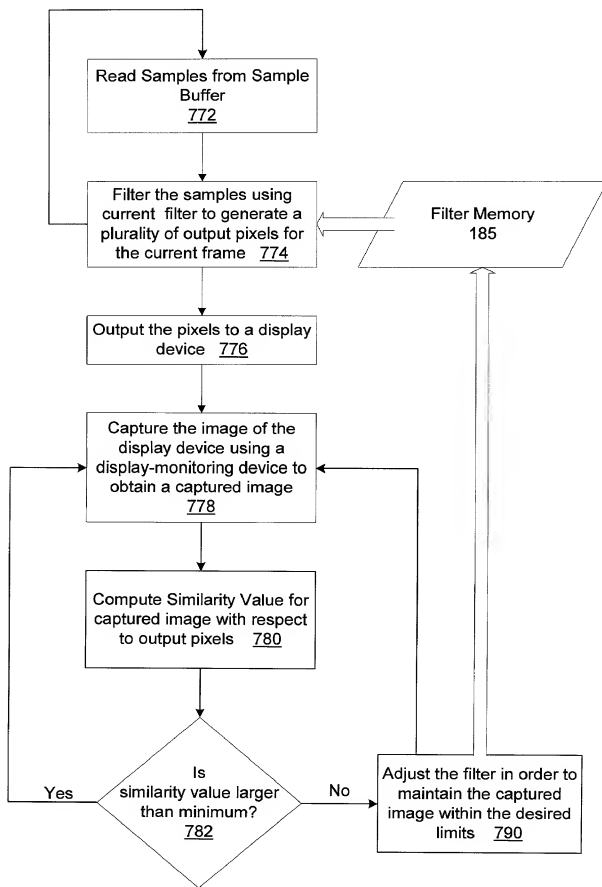


Fig. 31